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PLAGUE-PREVENTION WORK.

CALIFORNIA.

The following report of plague-prevention work in California for the week ended June 24, 1916, was received from Senior Surg. Pierce, of the United States Public Health Service, in charge of the work:

SAN FRANCISCO, CAL.

RAT PROOFING.

New buildings:

Inspections of work under construction..	223
Basements concreted (square feet).....	81,225 49
Floors concreted (square feet)....	193,605 33
Yards, passageways, etc. (square feet).....	13,302 73
Total area of concrete laid (square feet).....	288,132

Class A, B, and C (fire-proof) buildings:

Inspections made.....	149
Roof and basement ventilators, etc., screened.....	753
Wire screening used (square feet)	3,640
Openings around pipes, et., closed with cement	1,630
Sidewalk lens lights replaced.....	1,500

Old buildings:

Inspections made.....	377
Wooden floors removed.....	45
Yards and passageways, planking removed.....	23
New foundation walls installed (cubic feet).....	5,795
Concrete floors installed (square feet).....	22,368 27
Basements concreted (square feet).....	32,845 35
Yards and passageways, etc., concreted (square feet).....	19,886 77
Total area concrete laid (square feet).....	75,099
Floors rat proofed with wire cloth (square feet).....	1,788 3
Buildings razed.....	23
New garbage cans stamped approved...	200
Nuisances abated.....	438

OPERATIONS ON THE WATER FRONT.

Vessels inspected for rat guards.....	22
Reinspections made on vessels.....	20
New rat guards procured.....	30
Defective rat guards repaired.....	5
Rats trapped on wharves and water front..	37
Rats trapped on vessels.....	60
Traps set on wharves and water front.....	134
Traps set on vessels.....	235
Vessels trapped on.....	20
Poisons placed on water front.....	3,600
Poisons placed within Panama-Pacific International Exposition grounds.....	36,000
Bait used on water front and vessels—bacon (pounds).....	6
Bread used in poisoning water front (loaves).	9
Poison used on water front (pounds).....	3

SAN FRANCISCO—Continued.

RATS COLLECTED AND EXAMINED FOR PLAGUE.

City.	Collected.	Examined.	Infected.
San Francisco.....	110	101	(1)
Oakland.....	8	8	(1)
Total.....	118	109	(1)

¹ None.

RATS IDENTIFIED.

Mus norvegicus.....	19
Mus rattus.....	45
Mus alexandrinus.....	46
Mus musculus.....	None.

SQUIRRELS COLLECTED AND EXAMINED.

County.	Collected.	Examined.	Infected.
Alameda.....	926	926	(1)
Contra Costa.....	773	773	3
San Benito.....	827	827	1
San Joaquin.....	200	200	
Stanislaus.....	257	257	
Santa Clara.....	337	337	
San Luis Obispo.....	456	456	
San Mateo.....	270	270	
Santa Cruz.....	255	255	
Merced.....	177	177	
Modoc.....	103	103	
Lassen.....	25	25	
Sonoma.....	49	49	
Mendocino.....	26	26	
Total.....	4,661	4,661	4

None.

OTHER ANIMALS COLLECTED AND EXAMINED.

Rabbits.....	10
Found infected.....	None.

RANCHES INSPECTED AND HUNTED OVER.

Alameda County.....	68
Contra Costa County.....	35
San Benito County.....	31
San Joaquin County.....	44
Stanislaus County.....	26
Santa Clara County.....	40
San Luis Obispo County.....	12
San Mateo County.....	14
Santa Cruz County.....	26
Merced County.....	27
Modoc County.....	2
Lassen County.....	10
Sonoma County.....	2
Mendocino County.....	4

PLAGUE-INFECTED SQUIRRELS.

Contra Costa County:

Shot June 15, 1916. J. M. Kofford ranch, 4½ miles south of Antioch, sec. 2, T. 1 N., R. 1 E.....	1
Shot June 16, 1916. Peoples Water Co. property, Sather, lessee, Sobrante Grant 8 miles southeast of San Pablo.....	2

PLAGUE-INFECTED SQUIRRELS—Continued.

San Benito County:

Shot June 15, 1916. D. D. Sindell ranch, sec. 16, T. 14 S., R. 7 E., 4 miles east of Paicines.....	1
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RECORD OF PLAGUE INFECTION.

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squir- rel plague.	Total number ro- dents found in- fected since May, 1907.
Cities:				
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	(1)	398 rats.
Oakland.....	Aug. 9, 1911	Dec. 1, 1908	(1)	126 rats.
Berkeley.....	Aug. 28, 1907	(1)	(1)	None.
Los Angeles.....	Aug. 11, 1908	(1)	Aug. 21, 1908	1 squirrel.
Counties:				
Alameda (exclusive of Oakland and Berkeley).....	Sept. 24, 1909	Oct. 17, 1909 wood rat.	June 7, 1915	291 squirrels, 1 wood rat.
Contra Costa.....	July 13, 1915	(1)	June 16, 1916	1,621 squirrels.
Fresno.....	(1)	(1)	Oct. 27, 1911	1 squirrel.
Merced.....	(1)	(1)	May 12, 1916	7 squirrels.
Monterey.....	(1)	(1)	May 27, 1916	38 squirrels.
San Benito.....	June 4, 1913	(1)	June 15, 1916	65 squirrels.
San Joaquin.....	Sept. 18, 1911	(1)	Aug. 26, 1911	18 squirrels.
Santa Clara.....	Aug. 31, 1910	(1)	May 30, 1916	31 squirrels.
San Luis Obispo.....	(1)	(1)	Jan. 29, 1910	1 squirrel.
Santa Cruz.....	(1)	(1)	May 30, 1916	5 squirrels.
Stanislaus.....	(1)	(1)	June 2, 1911	18 squirrels.

¹ None.

The work is being carried on in the following-named counties: Alameda, Contra Costa, San Francisco, Stanislaus, San Benito, Monterey, Merced, Santa Clara, San Mateo, Santa Cruz, San Luis Obispo, San Joaquin, Sonoma, Mendocino, Lassen, and Modoc.

LOUISIANA—NEW ORLEANS—PLAGUE ERADICATION.

The following report of plague-eradication work at New Orleans for the week ended July 1, 1916,¹ was received from Passed Asst. Surg. Simpson, of the United States Public Health Service, in charge of the work:

OUTGOING QUARANTINE.		BUILDINGS RAT PROOFED—continued.	
Vessels fumigated with cyanide gas.....	19	Concrete laid (square yards).....	3,522
Cyanide used in cyanide-gas fumigation (pounds).....	736	Premises, planking, and shed flooring re- moved.....	53
Sulphuric acid used in cyanide-gas fuma- tion (pints).....	1,104	Buildings demolished.....	12½
Clean bills of health issued.....	34	Total buildings rat proofed to date (abated).....	11½, 27½
FIELD OPERATIONS.		LABORATORY OPERATIONS.	
Rodents trapped.....	6,796	Rodents received, by species:	
Premises fumigated.....	1	Mus rattus.....	4
Premises inspected.....	7,034	Mus norvegicus.....	1,077
Notices served.....	548	Mus alexandrinus.....	111
Garbage cans installed.....	5	Mus musculus.....	4,933
BUILDINGS RAT PROOFED.		Wood rats.....	1
By elevation.....	137	Muskrats.....	11
By marginal concrete wall.....	160	Putrid (included in enumeration of species).....	123
By concrete floor and wall.....	172	Total rodents received at laboratory.....	6,330
By minor repairs.....	21	Rodents examined.....	1,383
Total buildings rat proofed.....	690	Number of rats suspected of plague.....	225
		Plague rats confirmed.....	1

¹ Report for week ended June 24, 1916, not received.² Indicates the number of rodents the tissues of which were inoculated into guinea pigs. Most of them showed on necropsis only evidence of recent inflammatory process; practically none presented gross lesions characteristic of plague infection.

PLAGUE RATS.

Case No.	Address.	Captured.	Diagnosis confirmed.	Treatment of premises.
201	St. Mary and Camp Place.	May 31, 1916	June 25, 1916	Intensive trapping. Rat proofing of adjoining premises.
202	North Peters and Bien-ville Streets.	June 16, 1916	.....do.....	Fumigation with cyanide. Intensive trapping.
203	No. 53 Fourth Street (Harvey, La.).	June 12, 1916	June 27, 1916	Intensive trapping.
204	No. 2005 Tchoupitoulas Street.	.....do.....	June 29, 1916	Intensive trapping. Removal of rubbish and debris; rat proofing repairs to shed.
205	Sixth and Derbigny Streets (Gretna, La.).	June 1, 1916	.....do.....	Intensive trapping.
206	No. 2908 Gravier Street.	June 17, 1916	June 30, 1916	Intensive trapping; removal of rubbish and debris; demolition of non-rat-proof stable.
207	No. 1325 Dryades Street	June 16, 1916	.....do.....	Repair of all defects; removal of rubbish and debris. Intensive trapping of neighborhood.
208	North Peters and Bien-ville Streets.	May 24, 1916	.....do.....	Repair of all defects; fumigation with cyanide.
209	No. 515 Magazine Street	June 6, 1916	.....do.....	Fumigation with cyanide.
310	Melpomene and Bread Streets.	June 12, 1916	.....do.....	Intensive trapping.
311	No. 223 Poydras Street	June 15, 1916	.....do.....	Fumigation with cyanide; removal of debris and rubbish; repair to defects. Intensive trapping.

PLAGUE STATUS TO JULY 1, 1916.

Last case of human plague, Sept. 8, 1915.

Last case of rodent plague, June 17, 1916.

Total number of rodents captured to July 1. 761,056

Total number of rodents examined to July 1 366,393

PLAGUE STATUS TO JULY 1, 1916—continued.

Total cases of rodent plague to July 1, by species:

<i>Mus musculus</i>	6
<i>Mus rattus</i>	19
<i>Mus alexandrinus</i>	13
<i>Mus norvegicus</i>	270

Total rodent cases to July 1, 1916.... 311

HAWAII—PLAGUE PREVENTION.

The following reports of plague-prevention work in Hawaii were received from Surg. Trotter, of the United States Public Health Service:

Honolulu.

WEEK ENDED JUNE 17, 1916.

Total rats and mongoose taken.....	326
Rats trapped.....	320
Mongoose trapped.....	1
Rats killed by sulphur dioxide.....	4
Rats found dead (<i>Mus norvegicus</i>).....	1
Examined microscopically.....	249
Examined macroscopically.....	77
Showing plague infection.....	None.
Classification of rats trapped:	
<i>Mus alexandrinus</i>	149

Classification of rats trapped—Continued.

<i>Mus musculus</i>	115
<i>Mus norvegicus</i>	43
<i>Mus rattus</i>	13
Classification of rats killed by sulphur dioxide:	
<i>Mus alexandrinus</i>	4
Average number of traps set daily.....	364
Cost per rat destroyed.....cents..	24

WEEK ENDED JUNE 24, 1916.

Total rats and mongoose taken.....	407
Rats trapped.....	404
Mongoose trapped.....	6
Examined microscopically.....	129
Examined macroscopically.....	73
Showing plague infection.....	None.
Classification of rats trapped:	
<i>Mus alexandrinus</i>	161
<i>Mus musculus</i>	177

Classification of rats trapped—Continued.

<i>Mus norvegicus</i>	44
<i>Mus rattus</i>	59
Average number of traps set daily.....	164
Cost per rat destroyed.....	19½ cents.
Last case rat plague, Aiea, 9 miles from Honolulu,	
Apr. 12, 1916.	
Last case human plague, Honolulu, July 12, 1916.	

1929

July 21, 1916

Hilo.

WEEK ENDED JUNE 17, 1913.

Rats and mongoose taken.....	2,463	Classification of rats trapped and found dead:	
Rats trapped.....	2,400	<i>Mus norvegicus</i>	706
Rats found dead.....	8	<i>Mus alexandrinus</i>	233
Mongoose taken.....	52	<i>Mus rattus</i>	532
Rats and mongoose examined macroscopically.....	2,460	<i>Mus musculus</i>	881
Rats and mongoose examined microscopically.....	1	Last case of rat plague, Paauhau Sugar Co., Jan. 13, 1916.	
Rats and mongoose plague infected.....	None.	Last case of human plague, Paauhau Sugar Co., Dec. 16, 1913.	